[Doc. No. 25530, 53 FR 26153, July 11, 1988; 53 FR 30906, Aug. 16, 1988]

APPENDIX E TO PART 135—HELICOPTER FLIGHT RECORDER SPECIFICATIONS

Parameters	Range	Accuracy sensor input to DFDR readout	Sampling inter- val (per second)	Resolution ² read out
Time (GMT)	24 Hrs	±0.125% Per Hour	0.25 (1 per 4 seconds).	1 sec
Altitude	-1,000 ft to max certificated altitude of aircraft.	±100 to ±700 ft (See Table 1, TSO-C51a).	1	5' to 30'.
Airspeed	As the installed meas- uring system.	±3%	1	1 kt
Heading	360°	±2°	1	0.5°.
Normal Acceleration (Vertical)	-3g to +6g	±1% of max range excluding datum error of ±5%.	8	0.01g
Pitch Attitude	±75°	±2°	2	0.5°
Roll Attitude	±180°	±2°	2	0.5°.
Radio Transmitter Keying	On-Off (Discrete)		1	0.25 sec
Power in Each Engine: Free Power Turbine Speed <i>and</i> Engine Torque.	0-130% (power Turbine Speed) Full range (Torque).	±2%	1 speed 1 torque (per engine).	0.2% ¹ to 0.4% ¹
Main Rotor Speed	0–130%	±2%	2	0.3% 1
Altitude Rate	±6,000 ft/min	As installed	2	0.2% 1
Pilot Input—Primary Controls (Collective, Longitudinal Cyclic, Lateral Cyclic, Pedal) ³ .	Full range	±3%	2	0.5% 1
Flight Control Hydraulic Pressure Low.	Discrete, each circuit		1	
Flight Control Hydraulic Pres- sure Selector Switch Posi- tion, 1st and 2nd stage.	Discrete		1	
AFCS Mode and Engagement Status.	Discrete (5 bits nec- essary).		1	
Stability Augmentation System Engage.	Discrete		1	
SAS Fault Status	Discrete		0.25	
Main Gearbox Temperature Low.	As installed	As installed	0.25	0.5% 1
Main Gearbox Temperature High.	As installed	As installed	0.5	0.5% 1
Controllable Stabilator Position.	Full Range	±3%	2	0.4% 1.
Longitudinal Acceleration	±1g	±1.5% max range excluding datum error of ±5%.	4	0.01g.
Lateral Acceleration	±1g	±1.5% max range excluding datum of ±5%.	4	0.01g.
Master Warning	Discrete		1	
Nav 1 and 2 Frequency Selection.	Full range	As installed	0.25	
Outside Air Temperature	-50° C to +90° C	+2° c	0.5	0.3° c

[Doc. No. 25530, 53 FR 26154, July 11, 1988; 53 FR 30906, Aug. 16, 1988; Amdt. 135–113, 73 FR 12571, Mar. 7, 2008; 73 FR 15281, Mar. 21, 2008]

APPENDIX F TO PART 135—AIRPLANE FLIGHT RECORDER SPECIFICATION The recorded values must meet the designated range, resolution, and accuracy requirements during dynamic and static conditions. All data recorded must be correlated in time to within one second.

Parameters	Range	Accuracy (sensor input)	Seconds per sampling interval	Resolution	Remarks
Time or Relative Time Counts ¹ .	24 Hrs, 0 to 4095.	±0.125% Per Hour.	4	1 sec	UTC time preferred when available. Counter increments each 4 seconds of system operation.
Pressure Altitude.	- 1000 ft to max certificated alti- tude of aircraft. +5000 ft.	±100 to ±700 ft (see table, TSO C124a or TSO C51a).	1	5' to 35"	Data should be obtained from the air data computer when practicable.

Per cent of full range.
 This column applies to aircraft manufactured after October 11, 1991.
 For all aircraft manufactured on or after April 7, 2010, the sampling interval per second is 4.

Parameters	Range	Accuracy (sensor input)	Seconds per sampling interval	Resolution	Remarks
Indicated air- speed or Cali- brated airspeed.	50 KIAS or minimum value to Max $V_{\rm so\pm}$ and $V_{\rm so}$ to 1.2 $V_{\rm D}$.	±5% and ±3%	1	1 kt	Data should be obtained from the air data computer when practicable.
Heading (Primary flight crew reference).	0-360° and Discrete "true" or "mag".	±2°	1	0.5°	When true or magnetic head- ing can be selected as the primary heading reference, a discrete indicating selec- tion must be recorded.
 Normal Acceleration (Vertical) 9. 	-3g to +6g	±1% of max range exclud- ing datum error of ±5%.	0.125	0.004g	
6. Pitch Attitude	±75%	±2°	1 or 0.25 for air- planes oper- ated under § 135.152(j).	0.5°	A sampling rate of 0.25 is recommended.
7. Roll Attitude ²	±180°	±2°		0.5°	A sampling rate of 0.5 is recommended.
Manual Radio Transmitter Keying or CVR/ DFDR synchro- nization ref- erence.	On-Off (Discrete) None		1		Preferably each crew mem- ber but one discrete ac- ceptable for all trans- mission provided the CVR/ FDR system complies with TSO C124a CVR synchro- nization requirements
Thrust/Power on each engine—primary flight crew reference.	Full Range Forward.	±2%	1 (per engine)	0.3% of full range.	(paragraph 4.2.1 ED-55). Sufficient parameters (e.g. EPR, N1 or Torque, NP) as appropriate to the particular engine being recorded to determine power in forward and reverse thrust, including potential overspeed condition.
Autopilot Engagement.	Discrete "on" or "off".		1		
11. Longitudinal Acceleration.	±1g	±1.5% max. range excluding datum error of ±5%.	0.25	0.004g.	
12a. Pitch control(s) position (nonfly-by-wire systems) 18.	Full Range		0.5 or 0.25 for airplanes oper- ated under § 135.152(j).	0.5% of full range.	For airplanes that have a flight control breakaway capability that allows either pilot to operate the controls independently, record both control inputs. The control inputs may be sampled alternately once per second to produce the sampling interval of 0.5 or 0.25, as applicable.
12b. Pitch control(s) position (fly-by-wire systems) 3 18.	Full Range	±2° unless high- er accuracy uniquely re- quired.	0.5 or 0.25 for airplanes oper- ated under § 135.152(j).	0.2% of full range.	рії Саріс.
13a. Lateral con- trol position(s) (nonfly-by- wire) 18.	Full Range	±2° unless high- er accuracy uniquely re- quired.		0.2% of full range.	For airplanes that have a flight control breakaway capability that allows either pilot to operate the controls independently, record both control inputs. The control inputs may be sampled alternately once per second to produce the sampling interval of 0.5 or 0.25, as applicable.

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Parameters	Range	Accuracy (sensor input)	Seconds per sampling interval	Resolution	Remarks
13b. Lateral control position(s) (fly-by-wire) 4 18.	Full Range	±2° unless high- er accuracy uniquely re- quired.	0.5 or 0.25 for airplanes oper- ated under § 135.152(j).	0.2% of full range.	
14a. Yaw control position(s) (nonfly-by- wire) ⁵ 18.	Full Range	±2° unless high- er accuracy uniquely re- quired.	0.5	0.3% of full range.	For airplanes that have a flight control breakaway capability that allows either pilot to operate the controls independently, record both control inputs. The control inputs may be sampled alternately once per second to produce the sampling of 0.5 or 0.25, as applicable.
14b. Yaw control position(s) (fly-by-wire) 18.	Full Range	±2° unless high- er accuracy uniquely re- quired.	0.5	0.2% of full range.	
15. Pitch control surface(s) position 6 18.	Full Range	±2° unless high- er accuracy uniquely re- quired.	0.5 or 0.25 for airplanes oper- ated under § 135.152(j)	0.3% of full range.	For airplanes fitted with multiple or split surfaces, a suitable combination of inputs is acceptable in lieu of recording each surface separately. The control surfaces may be sampled alternately to produce the sampling interval of 0.5 or 0.25, as applicable.
16. Lateral control surface(s) position ⁷ ¹⁸ .	Full Range	±2° unless higher accuracy uniquely required.	0.5 or 0.25 for airplanes oper- ated under § 135.152(j).	0.2% of full range.	A suitable combination of surface position sensors is acceptable in lieu of recording each surface separately. The control surfaces may be sampled alternately to produce the sampling interval of 0.5 or 0.25, as applicable.
17. Yaw control surface(s) position 8 18.	Full Range	±2° unless high- er accuracy uniquely re- quired.	0.5	0.2% of full range.	For airplanes with multiple or split surfaces, a suitable combination of surface position sensors is acceptable in lieu of recording each surface separately. The control surfaces may be sampled alternately to produce the sampling interval of 0.5.
18. Lateral Acceleration.	±1g	±1.5% max. range excluding datum error of ±5%.	0.25	0.004g.	
Pitch Trim Surface Position.	Full Range	±3° Unless High- er Accuracy Uniquely Re- quired.	1	0.6% of full range	
 Trailing Edge Flap or Cockpit Control Selec- tion ¹⁰. 	Full Range or Each Position (discrete).	±3° or as Pilot's Indicator.	2	0.5% of full range.	Flap position and cockpit control may each be sam- pled alternately at 4 sec- ond intervals, to give a data point every 2 sec- onds.
21. Leading Edge Flap or Cockpit Control Selec- tion 11.	Full Range or Each Discrete Position.	±3° or as Pilot's Indicator and sufficient to determine each discrete position.	2	0.5% of full range.	Left and right sides, of flap position and cockpit control may each be sampled at 4 second intervals, so as to give a data point to every 2 seconds.

Parameters	Range	Accuracy (sensor input)	Seconds per sampling interval	Resolution	Remarks
22. Each Thrust reverser Posi- tion (or equiva- lent for pro- peller airplane).	Stowed, In Transit, and reverse (Discrete).		1 (per engine		Turbo-jet—2 discretes enable the 3 states to be deter- mined Turbo-prop—1 discrete
23. Ground Spoil- er Position or Speed Brake Selection 12.	Full Range or Each Position (discrete).	±2° Unless High- er Accuracy Uniquely Re- quired.	1 or 0.5 for air- planes oper- ated under § 135.152(j).	0.5% of full range	
24. Outside Air Temperature or Total Air Tem- perature 13.	−50 °C to +90 °C.	±2 °C	2	0.3 °C	
25. Autopilot/ Autothrottle/ AFCS Mode and Engage- ment Status.	A suitable combination of discretes.		1		Discretes should show which systems are engaged and which primary modes are controlling the flight path and speed of the aircraft.
26. Radio Alti- tude ¹⁴ .	-20 ft to 2,500 ft.	±2 ft or ±3% Whichever is Greater Below 500 ft and ±5% Above 500 ft.	1	1 ft +5% above 500 ft.	For autoland/category 3 op- erations. Each radio altim- eter should be recorded, but arranged so that at least one is recorded each second.
27. Localizer Deviation, MLS Azimuth, or GPS Lateral Deviation.	±400 Microamps or available sensor range as installed ±62°.	As installed ±3% recommended	1	0.3% of full range.	For autoland/category 3 operations. Each system should be recorded but arranged so that at least one is recorded each second. It is not necessary to record ILS and MLS at the same time, only the approach aid in use need be recorded.
28. Glideslope Deviation, MLS Elevation, or GPS Vertical Deviation.	±400 Microamps or available sensor range as installed. 0.9 to + 30°	As installed ±3% recommended.	1	0.3% of full range.	For autoland/category 3 operations. Each system should be recorded but arranged so that at least one is recorded each second. It is not necessary to record ILS and MLS at the same time, only the approach aid in use need be recorded.
29. Marker Beacon Passage.30. Master Warning.	Discrete "on" or "off". Discrete		1		A single discrete is acceptable for all markers. Record the master warning and record each "red" warning that cannot be determined from other parameters or from the cockpit voice recorder.
31. Air/ground sensor (primary airplane system reference nose or main gear).	Discrete "air" or "ground".		1 (0.25 recommended.).		
32. Angle of Attack (If measured directly).	As installed	As installed	2 or 0.5 for air- planes oper- ated under § 135.152(j).	0.3% of full range.	If left and right sensors are available, each may be recorded at 4 or 1 second intervals, as appropriate, so as to give a data point at 2 seconds or 0.5 second, as required.
33. Hydraulic Pressure Low, Each System.	Discrete or avail- able sensor range, "low" or "normal".	±5%	2	0.5% of full range.	
34. Groundspeed	As installed	Most Accurate Systems In- stalled.	1	0.2% of full range.	

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Parameters	Range	Accuracy (sensor input)	Seconds per sampling interval	Resolution	Remarks
35. GPWS (ground prox- imity warning system).	Discrete "warn- ing" or "off".		1		A suitable combination of discretes unless recorder capacity is limited in which case a single discrete for
36. Landing Gear Position or Landing gear cockpit control selection.	Discrete		4		all modes is acceptable. A suitable combination of discretes should be recorded.
37. Drift Angle ¹⁵ 38. Wind Speed and Direction.	As installed	As installed As installed	44	0.1° 1 knot, and 1.0°.	
39. Latitude and Longitude.	As installed	As installed	4	0.002°, or as installed.	Provided by the Primary Navigation System Ref- erence. Where capacity permits latitude/longitude resolution should be 0.0002°.
 Stick shaker and pusher activation. 	Discrete(s) "on" or "off".		1		A suitable combination of discretes to determine activation.
 Windshear Detection. 	Discrete "warn- ing" or "off".		1.		
42. Throttle/power lever position 16.	Full Range	±2%	1 for each lever	2% of full range	For airplanes with non-me- chanically linked cockpit engine controls.
43. Additional Engine Parameters.	As installed	As installed	Each engine each second.	2% of full range	Where capacity permits, the preferred priority is indicated vibration level, N2, EGT, Fuel Flow, Fuel Cutoff lever position and N3, unless engine manufacturer recommends otherwise.
44. Traffic Alert and Collision Avoidance Sys- tem (TCAS).	Discretes	As installed	1		A suitable combination of discretes should be recorded to determine the status of—Combined Control, Vertical Control, Up Advisory, and down advisory. (ref. ARINC Characteristic 735 Attachment 6E, TCAS VERTICAL RADATA OUTPUT WORD.)
45. DME 1 and 2 Distance.	0–200 NM;	As installed	4	1 NM	1 mile.
46. Nav 1 and 2 Selected Frequency.	Full range	As installed	4		Sufficient to determine selected frequency.
 Selected barometric setting. 	Full Range	±5%	(1 per 64 sec.)	0.2% of full range.	
 Selected altitude. 	Full Range	±5%	1	100 ft.	
49. Selected speed.	Full Range	±5%	1	1 knot.	
50. Selected Mach.	Full Range	±5%	1	.01.	
Selected vertical speed.	Full Range	±5%	1	100 ft./min.	
52. Selected heading.	Full Range	±5%	1	1°.	
53. Selected flight path.	Full Range	±5%	1	1°.	
Selected decision height.	Full Range	±5%	64	1 ft.	

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Parameters	Range	Accuracy (sensor input)	Seconds per sampling interval	Resolution	Remarks
55. EFIS display format.	Discrete(s)		4		Discretes should show the display system status (e.g., off, normal, fail, composite, sector, plan, nav aids, weather radar, range, copy.
56. Multi-function/ Engine Alerts Display format.	Discrete(s)		4		Discretes should show the display system status (e.g., off, normal, fail, and the identity of display pages for emergency procedures, need not be recorded.
57. Thrust comand 17.	Full Range	±2%	2	2% of full range	11000 1101 20 100014041
58. Thrust target 59. Fuel quantity in CG trim tank.	Full Range Full Range	±2% ±5%	4	2% of full range. 1% of full range.	
60. Primary Navigation System Reference.	Discrete GPS, INS, VOR/ DME, MLS, Loran C, Omega, Local- izer		4		A suitable combination of discretes to determine the Primary Navigation System reference.
61. Ice Detection	Glidescope. Discrete "ice" or "no ice".		4.		
 Engine warn- ing each engine vibration. 	Discrete		1.		
63. Engine warn- ing each engine over temp	Discrete		1.		
64. Engine warn- ing each engine oil pressure low.	Discrete		1.		
65. Engine warning each engine over speed.	Discrete		1.		
66. Yaw Trim Surface Position.	Full Range	±3% Unless Higher Accuracy Uniquely Required.	2	0.3% of full range.	
67. Roll Trim Surface Position.	Full Range	±3% Unless Higher Accuracy Uniquely Required.	2	0.3% of full range.	
68. Brake Pres- sure (left and right).	As installed	±5%	1		To determine braking effort applied by pilots or by autobrakes.
69. Brake Pedal Application (left and right).	Discrete or Ana- log "applied" or "off".	±5% (Analog)	1		To determine braking applied by pilots.
70. Yaw or side- slip angle.	Full Range	±5%	1	0.5°.	
71. Engine bleed valve position.72. De-icing or	Discrete "open" or "closed". Discrete "on" or		4.		
anti-icing sys- tem selection. 73. Computed	"off".	±5%	(1 per 64 sec.)	1% of full range.	
center of gravity. 74. AC electrical	Discrete "power"	15/6	4	1 /6 Of full farige.	Each bus.
bus status. 75. DC electrical	or "off". Discrete "power"		4		Each bus.
bus status. 76. APU bleed	or "off". Discrete "open"		4.		Lacii bus.
valve position. 77. Hydraulic Pressure (each system).	or "closed". Full range	±5%	2	100 psi.	

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Parameters	Range	Accuracy (sensor input)	Seconds per sampling interval	Resolution	Remarks
78. Loss of cabin pressure.	Discrete "loss" or "normal".		1.		
79. Computer fail- ure (critical flight and en- gine control systems).	Discrete "fail" or "normal".		4.		
80. Heads-up display (when an information source is installed).	Discrete(s) "on" or "off".		4.		
81. Para-visual display (when an information source is in- stalled).	Discrete(s) "on" or "off".		1.		
82. Cockpit trim control input position—pitch.	Full Range	±5%	1	0.2% of full range.	Where mechanical means for control inputs are not available, cockpit display trim positions should be recorded.
83. Cockpit trim control input position—roll.	Full Range	±5%	1	0.7% of full range.	Where mechanical means for control inputs are not available, cockpit display trim position should be recorded.
84. Cockpit trim control input position—yaw.	Full Range	±5%	1	0.3% of full range.	Where mechanical means for control input are not avail- able, cockpit display trim positions should be re- corded.
85. Trailing edge flap and cockpit flap control po- sition.	Full Range	±5%	2	0.5% of full range.	Trailing edge flaps and cock- pit flap control position may each be sampled al- ternately at 4 second inter- vals to provide a sample each 0.5 second.
86. Leading edge flap and cockpit flap control po- sition.	Full Range or Discrete.	±5%	1	0.5% of full range.	
87. Ground spoil- er position and speed brake se- lection.	Full Range or Discrete.	±5%	0.5	0.3% of full range	
88. All cockpit flight control input forces (control wheel, control column, rudder pedal) 18.	Full Range Con- trol wheel ±70 lbs. Control column ±85 lbs. Rudder pedal ±165 lbs.	±5°	1	0.3% of full range.	For fly-by-wire flight control systems, where flight control surface position is a function of the displacement of the control input device only, it is not necessary to record this parameter. For airplanes that have a flight control break-away capability that allows either pilot to operate the control independently, record both control force inputs. The control force inputs may be sampled alternately once per 2 seconds to produce the sam-

¹ For A300 B2/B4 airplanes, resolution = 6 seconds.
² For A330/A340 series airplanes, resolution = 0.703°.
³ For A318/A319/A320/A321 series airplanes, resolution = 0.275% (0.088°>0.064°). For A330/A340 series airplanes, resolution = 2.20% (0.703°>0.064°).
⁴ For A318/A319/A320/A321 series airplanes, resolution = 0.22% (0.088°>0.080°). For A330/A340 series airplanes, resolution = 1.76% (0.703°>0.080°).

- ⁵ For A330/A340 series airplanes, resolution = 1.18% (0.703°>0.120°).
 ⁶ For A330/A340 series airplanes, resolution = 0.783% (0.352°>0.090°).
 ⁷ For A330/A340 series airplanes, aileron resolution = 0.704% (0.352°>0.100°). For A330/A340 series airplanes, spoiler resolution = 1.408% (0.703°>0.100°).
- tion = 1.406% (0.703°>0.100°).

 Begin For A330/A340 series airplanes, resolution = 0.30% (0.176°>0.12°). For A330/A340 series airplanes, seconds per sampling
- interval = 1.

 9 For B–717 series airplanes, resolution = .005g. For Dassault F900C/F900EX airplanes, resolution = .007g.

 10 For A330/A340 series airplanes, resolution = 1.05% (0.250°>0.120°).

 11 For A330/A340 series airplanes, resolution = 1.05% (0.250°>0.120°). For A300 B2/B4 series airplanes, resolution = 0.92%

- 11 For A330/A340 series airplanes, resolution = 1.05% (0.250°>0.120°). For A300 B2/B4 series airplanes, resolution = 0.52 / (0.230°>0.125°).

 12 For A330/A340 series airplanes, spoiler resolution = 1.406% (0.703°>0.100°).

 13 For A330/A340 series airplanes, resolution = 0.5 °C.

 14 For Dassault F900C/F900EX airplanes, Radio Altitude resolution = 1.25 ft.

 15 For A330/A340 series airplanes, resolution = 0.352 degrees.

 16 For A318/A319/A320/A321 series airplanes, resolution = 4.32%. For A330/A340 series airplanes, resolution is 3.27% of full range for throttle lever angle (RLA) resolution is nonlinear over the active reverse thrust range, which is 51.54 degrees to 96.14 degrees. The resolved element is 2.8 degrees uniformly over the entire active reverse thrust range, or 2.9% of the full range value of 96.14 degrees.

 17 For A318/A319/A320/A321 series airplanes, with IAE engines, resolution = 2.58%.

 18 For all aircraft manufactured on or after April 7, 2010, the seconds per sampling interval is 0.125. Each input must be recorded at this rate. Alternately sampling inputs (interleaving) to meet this sampling interval is prohibited.

[Doc. No. 28109, 62 FR 38398, July 17, 1997; 62 FR 48135, Sept. 12, 1997; Amdt. 135-85, 67 FR 54323, Aug. 21, 2002; Amdt. 135–89, 68 FR 42939, July 18, 2003; 68 FR 50069, Aug. 20, 2003; Amdt. 135– 113, 73 FR 12570, Mar. 7, 2008]

APPENDIX G TO PART 135—EXTENDED OPERATIONS (ETOPS)

G135.1 Definitions.

G135.1.1 Adequate Airport means an airport that an airplane operator may list with approval from the FAA because that airport meets the landing limitations of §135.385 or is a military airport that is active and operational.

G135.1.2 ETOPS Alternate Airport means an adequate airport that is designated in a dispatch or flight release for use in the event of a diversion during ETOPS. This definition applies to flight planning and does not in any way limit the authority of the pilot in command during flight.

G135.1.3 ETOPS Entry Point means the first point on the route of an ETOPS flight, determined using a one-engine inoperative cruise speed under standard conditions in still air, that is more than 180 minutes from an adequate airport.

G135.1.4 ETOPS Qualified Person means a person, performing maintenance for the certificate holder, who has satisfactorily completed the certificate holder's ETOPS training program.

G135.2 Requirements.

G135.2.1 General. After August 13, 2008, no certificate holder may operate an airplane, other than an all-cargo airplane with more than two engines, outside the continental United States more than 180 minutes flying time (at the one-engine-inoperative cruise speed under standard conditions in still air) from an airport described in §135.364 unless-

- (a) The certificate holder receives ETOPS approval from the FAA;
- (b) The operation is conducted in a multiengine transport category turbine-powered airplane:
- (c) The operation is planned to be no more than 240 minutes flying time (at the one engine inoperative cruise speed under standard

conditions in still air) from an airport described in §135.364; and

(d) The certificate holder meets the requirements of this appendix.

G135.2.2 Required certificate holder experience prior to conducting ETOPS.

Before applying for ETOPS approval, the certificate holder must have at least 12 months experience conducting international operations (excluding Canada and Mexico) with multi-engine transport category turbine-engine powered airplanes. The certificate holder may consider the following experience as international operations:

- (a) Operations to or from the State of Hawaii.
- (b) For certificate holders granted approval to operate under part 135 or part 121 before February 15, 2007, up to 6 months of domestic operating experience and operations in Canada and Mexico in multi-engine transport category turbojet-powered airplanes may be credited as part of the required 12 months of international experience required by paragraph G135.2.2(a) of this appendix.
- (c) ETOPS experience with other aircraft types to the extent authorized by the FAA.

G135.2.3 Airplane requirements. No certificate holder may conduct ETOPS in an airplane that was manufactured after February 17, 2015 unless the airplane meets the standards of §25.1535.

G135.2.4 Crew information requirements. The certificate holder must ensure that flight crews have in-flight access to current weather and operational information needed to comply with §135.83, §135.225, and §135.229. This includes information on all ETOPS Alternate Airports, all destination alternates, and the destination airport proposed for each ETOPS flight.

G135.2.5 Operational Requirements.